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Sheet 1 of 4

Based on Form PTO-1449 (3/90)				ATTY. DOCKET NO. 454313-3140		SERIAL NO. 09/298,523	
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Briles et al.			
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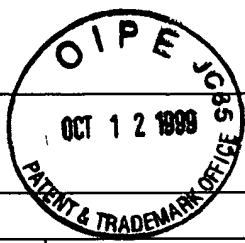
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
AC		Hammerschmidt et al., "SpsA, A Novel Pneumococcal Surface Protein With Specific Binding to Secretory Immunoglobulin A and Secretory Component, Molecular Immunology", vol. 25, pp. 1113-1124, 1997	
AD		Tomasz, A., "Choline in the Cell Wall of a Bacterium: Novel Type of Polymer-Linked Choline in Pneumococcus", Science, vol. 157, pp. 694-697, 1967	
AE		Briese et al., "Interactions of the Pneumococcal Amidase with Lipoteichoic Acid and Choline", Eur. J. Biochem., vol. 146, pp. 417-427, 1985	
AF		Sanchez-Beato et al., "Molecular Characterization of a Family of Choline-Binding Proteins of <i>Clostridium beijerinckii</i> NCIB 8052. Evolution and Gene Redundancy in Prokaryotic Cell", Gene, vol. 180, pp. 13-21, 1996	
AG		Sanchez-Beato et al., "Molecular Characterization of PcpA: A Novel Choline-Binding Protein of <i>Streptococcus Pneumoniae</i> , FEMS Microbiology Letters 164, pp. 207-214, 1997	
AH		Banas et al., "Sequence Analysis of the Gene for the Glucan-Binding Protein of <i>Streptococcus mutans</i> Ingritt", Infection and Immunity, vol. 58, no. 3, pp. 667-673, 1990	
AI	*	Briles et al., "PspA and PspC: Their Potential for Use as Pneumococcal Vaccines", Microbial Drug Resistance, vol. 3, no. 4, pp. 401-408, 1997	
AJ		Briles et al., "PspA, a Protection-Eliciting Pneumococcal Protein: Immunogenicity of Isolated Native PspA in Mice", Vaccine, vol. 14, no. 9, pp. 858-867, 1996	
AK		McDaniel et al., "Use of Insertional Inactivation to Facilitate Studies of Biological Properties of Pneumococcal Surface Protein A (PspA), J. Exp. Med., vol. 165, pp. 381-394, February 1987	
AL		McDaniel et al., "PspA, A Surface Protein of <i>Streptococcus pneumoniae</i> , Is Capable of Eliciting Protection Against Pneumococci of More Than One Capsular Type", Infection and Immunity, pp. 222-228, January 1991	
AM		McDaniel et al., "Molecular Localization of Variable and Conserved Regions of pspA and Identification of Additional pspA Homologous Sequences in <i>Streptococcus pneumoniae</i> ", Microbial Pathogenesis, pp. 261-269, 1992	
AN		McDaniel et al., "Localization of Protection-Eliciting Epitopes on PspA of <i>Streptococcus pneumoniae</i> Between Amino Acid Residues 192 and 260", Microbial Pathogenesis, pp. 323-327, 1994	
AO	*	McDaniel et al., "Monoclonal Antibodies Against Surface Components of <i>Streptococcus Pneumoniae</i> ", Monoclonal Antibodies Against Antibodies, volume III, pp. 143-164	
AP		McDaniel et al., "Immunization with a Plasmid Expressing Pneumococcal Surface Protein A (PspA) Can Elicit Protection Against Fatal Infection with <i>Streptococcus Pneumoniae</i> ", Gene Therapy, vol. 4, pp. 375-377, 1997	

EXAMINER <i>N M Minfield</i>	DATE CONSIDERED <i>5/21/01</i>
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LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT BROUILLARD et al.			
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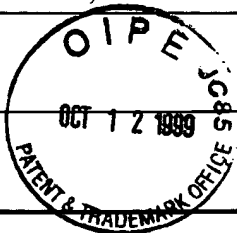
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<i>M</i>	AC		Yamamoto et al., "Oral Immunization with PspA Elicits Protective Humoral Immunity Against <i>Streptococcus Pneumoniae</i> Infection", Infection and Immunity, vol. 65, no. 2, February 1997
<i>M</i>	AD		Yamamoto et al., "A Nontoxic Adjuvant for Mucosal Immunity to Pneumococcal Surface Protein A ¹ ", The Journal of Immunology, vol. 161, pp. 4115-4121, 1998
<i>M</i>	AE		Wortham et al., "Enhanced Protective Antibody Responses to PspA After Intranasal or Subcutaneous Injections of PspA Genetically Fused to Granulocyte-Macrophage Colony-Stimulating Factor or Interleukin-2", Infection and Immunity, vol. 66, no. 4, pp. 1513-1520, April 1998
<i>M</i>	AF		Nayak et al., "A Live Recombinant Avirulent Oral Salmonella Vaccine Expressing Pneumococcal Surface Protein A Induces Protective Responses Against <i>Streptococcus pneumoniae</i> ", Infection and Immunity, vol. 66, no. 8, pp. 3744-3751, August 1998
<i>M</i>	AG		Yother et al., "Structural Properties and Evolutionary Relationships of PspA, a Surface Protein of <i>Streptococcus pneumoniae</i> , as Revealed by Sequence Analysis", Journal of Bacteriology, vol. 174, no. 2, pp. 601-609, January 1992
<i>M</i>	AH		Ralph et al., "Cross-Reactive Protein Eliciting Epitopes of Pneumococcal Surface Protein A", Annals of New York Academy of Sciences, pp. 361-363, undated
<i>M</i>	AI	*	E. AlonsoDeVelasco et al., "Streptococcus pneumoniae: Virulence Factors, Pathogenesis, and Vaccines", Microbiology Reviews, vol. 59, no. 4, pp. 591-603, December 1995
<i>M</i>	AJ		Yother et al. "Pneumococcal Surface Protein A: Structural Analysis and Biological Significance", Genetics and Molecular Biology of Streptococci, Lactococci and Enterococci, American Society for Microbiology, Washington, D.C., 1991, pp. 88-91

EXAMINER <i>M. M. Brouillard</i>	DATE CONSIDERED <i>5/21/01</i>
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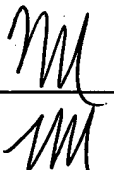
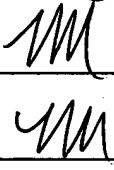
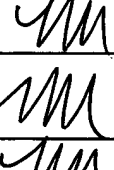
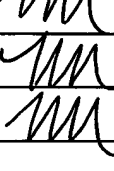

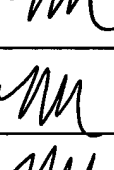
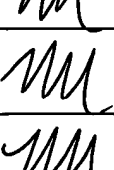

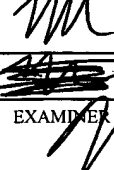
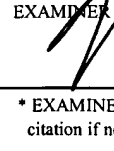
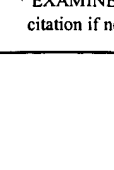

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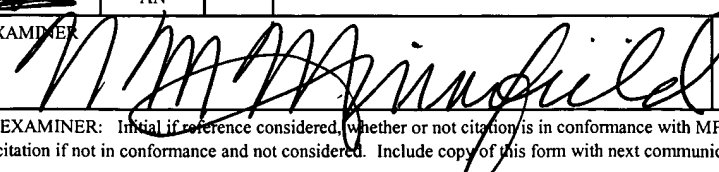
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	AC		Talkington et al., "A 43-Kilodalton Pneumococcal Surface Protein PspA: Isolation, Protective Abilities, and Structural Analysis of the Amino-Terminal Sequence", Infection and Immunity, vol. 59, no. 4, pp. 1285-1289, April 1991
	AD	*	Swiatlo et al. "Oligonucleotides Identify Conserved and Variable Regions of <i>pspA</i> and <i>pspA</i> -Like Sequences of <i>Streptococcus pneumoniae</i> ", Gene, vol. 188, pp. 279-284, 1997
	AE		Barrosso et al., "Nucleotide Sequence of Clostridium Difficile Toxin B Gene" Nucleic Acids Research, vol. 18, no. 13, p 4004
	AF	X	Garcia et al., "Nucleotide Sequence and Expression of the Pneumococcal Autolysin Gene From Its Own Promoter In <i>Escherichia coli</i> ", Gene, vol. 43, pp. 265-272, 1986
	AG	X	Abstracts of 90th Annual Meeting of the American Society for Microbiology, p. 98, item D-106, May 1990
	AH	X	Abstract of ASM Conference on Streptococcal Genetics, p. 77, item 2c-21, undated
	AI	X	Brooks-Walter, A., et al., <i>The pspC gene encodes a second pneumococcal surface protein homologous to the gene encoding the protection-eliciting PspA protein of Streptococcus pneumoniae</i> . ASM Annual Meeting (Abstract), 1997
	AJ	X	Gray, B.M., <i>Pneumoccal infection</i> , in <i>Bacterial Infection</i> , P.E. Brachman, Editor. 1997, Plenum Publishing Corporation: New York
	AK		Abstracts of 89th Annual Meeting of the American Society for Microbiology, p. 125, item D-257, May 1989
	AL		Dove et al., "Molecular Characterization of the <i>Clostridium difficile</i> Toxin A Gene", Infection and Immunity, vol. 58, no. 2, pp. 480-488, 1990
	AM		Yother et al., "Novel Surface Attachment of the Streptococcus Pneumoniae Protein PspA", Journal of Bacteriology, pp. 2976-2985, May 1994;
	AN		

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